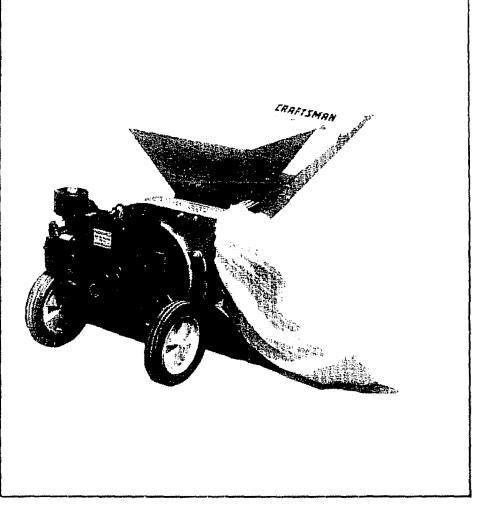


OWNERS MANUAL

MODEL NO. 247.796890



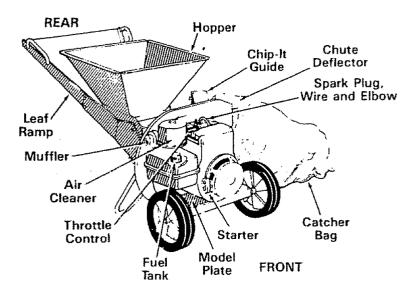
Carefully read and follow Safety Rules, Precautions and Operating Instructions. Failure to do so can result in serious personal injury.



SEARS / CRAFTSMAN

5 H.P. **CHIPPER-SHREDDER**

- AssemblyOperationMaintenanceRepair Parts Always wear eye protection during operation



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SERIA	SHOULD RECORD BOTH MO LL NUMBERS AND KEEP IN E FOR FUTURE REFERENCE	I A SAFE



Instructions given with this symbol are for personal safety. Be sure to follow them.

INDEX

Warranty Rules for Safe Operation Assembly Operation How to Use Your Chipper-Shredder Adjustments	3 4 6	Maintenance9Off-Season Storage11Maintenance Check List12Trouble Shooting Chart12Repair Parts13-19
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MAINTENANCE AGREEMENT

A Sears Maintenance Agreement is available on this product. Contact your nearest Sears store for details.

LIMITED ONE YEAR WARRANTY ON CRAFTSMAN GAS CHIPPER-SHREDDER

For one year from the date of purchase, when this Craftsman Chipper-Shredder is maintained, lubricated and tuned up according to the instructions in the owner's manual. Sears will repair, free of charge, any defect in material and workmanship.

If this Craftsman Chipper-Shredder is used for commercial or rental purpose, this warranty applies for only 30 days from the date of purchase.

This warranty does not cover:

- Expendable items which become worn during normal use, such as blades, blade guides, blade adapters, air cleaners, spark plugs and catcher bags;
- Repairs necessary because of operator abuse or negligence, including bent crankshafts.

WARRANTY SERVICE IS AVAILABLE BY RETURNING THE CRAFTSMAN CHIPPER-SHREDDER TO THE NEAREST SERVICE CENTER/DEPARTMENT IN THE UNITED STATES.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. SEARS, ROEBUCK AND CO., Dept. 698/731A, Sears Tower, Chicago, IL 60684



This unit is equipped with an internal combustion engine and should not be used on or near any unimproved forestcovered, brush-covered or grass-covered land unless the engine's exhaust system is equipped with a spark arrester meeting applicable local or state laws (if any). If a spark arrester is used, it should be maintained in effective working order by the operator

In the State of California the above is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal law apply on federal lands. A spark arrester muffler is available at your Sears Authorized Service Center (see page 19)



To reduce the potential for any injury, comply with the following safety instructions. Failure to comply with the instructions may result in personal injury.

RULES FOR SAFE OPERATION

TRAINING

- Read this owner's manual carefully in its entirety before attempting to assemble or operate this machine. Be completely familiar with the controls and the proper use of this machine before operating it. Keep this manual in a safe place for future and regular reference and for ordering replacement parts.
- 2. Children must never be allowed to operate this equipment.
- No one should operate this unit while intoxicated or while taking medication that impairs the senses or reactions
- 4. This equipment should never be operated in the vicinity of children, pets or other persons
- Never run your machine in an enclosed area as the exhaust from the engine contains carbon monoxide, which is an odorless, tasteless and deadly poisonous gas
- Never allow your hands or any part of your body or clothing inside the feeding chamber, discharge chute, or near any moving part while the machine or engine is running.
- 7. If it is necessary for any reason to inspect or repair the feeding chamber or any part of the machine where a moving part can come in contact with your body or clothing, stop the machine, allow it to cool, and disconnect the spark plug wire from the spark plug before attempting such inspection or repair.

PREPARATION

- Wear safety glasses provided with your unit while operating the chipper-shredder to prevent injury from any chips which may be ejected out of the openings.
- 2. Wear proper apparel Avoid wearing loose fitting clothing. Wear gloves when handling material
- 3. HANDLE FUEL WITH CARE as gasoline is an extremely flammable fuel
 - A. Check the fuel before starting the engine. Do not fill the fuel tank indoors, while the engine is running, or while the engine is still hot. Turn the unit off and let the engine cool before refueling.
 - B. Fuel your chipper-shredder in a clean area. Do not smoke while refueling.
 - C. Fuel tank cap must be secure at all times except during refueling.
 - D. Avoid spilling gasoline or oil. Wipe the unit clean of any spilled fuel or oil.
 - E Store fuel and oil in approved containers, away from heat or open flame, and out of reach of children.
- 4. This machine should be operated only upon an level earthen surface
- 5. Assure that all screws, nuts and bolts and other fasteners are properly secured

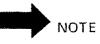
OPERATION

 When feeding shreddable material into this equipment, be extemely careful that pieces of metal, rocks, bottles, cans or other foreign objects are not included

- 2 If the cutting mechanism strikes any foreign object or if your machine should start making an unusual noise or vibration, immediately stop the engine and disconnect the spark plug wire from the spark plug Allow the machine to stop and take the following steps:
 - A Inspect for damage
 - B Replace or repair any damaged parts.
 - C. Check for any loose parts and tighten to assure continued safe operation.
- 3 The engine must be kept clean of debris and other accumulations.
- 4. Do not allow an accumulation of processed material to build up in the discharge area as this will prevent proper discharge and can result in kick-back from feed opening.
- Never allow your hands or any other part of your body or clothing inside the feeding chamber, discharge chute or near any moving part while the engine is running.
- 6 Keep all guards and deflectors in place and in good working condition to assure continued safe operation.
- 7 Always stand clear of the discharge area when operating this machine
- 8 Keep your face and body back from the feed opening to avoid accidental bounce back of any material.
- Do not over-reach. Keep proper balance and footing at all times.
- 10. The engine governor settings on your machine must not be altered, changed, or tampered with. The governor controls the maximum safe operating speeds and protects the engine and all moving parts from damage caused by overspeed.
- 11. Do not transport machine while engine is running.
- 12. Do not operate engine if air cleaner or cover directly over carburetor air intake is removed, except for adjustment. Removal of such parts could create a fire hazard.

MAINTENANCE AND STORAGE

- When this equipment is stopped for servicing, inspection, storage or to change an accessory, make sure the spark plug wire is disconnected from the spark plug. The machine should be allowed to cool down before making such inspection, adjustments, service, etc. Maintain your machine with care and keep it clean for the best and continued safe operation.
- Do not use flammable solutions to clean the air filter.
- 3 When not in use, your machine should be stored out of the reach of children. Keep where gasoline fumes will not reach an open flame or spark. For long periods of storage, the gasoline should be drained and disposed in a safe manner. Always allow the machine to cool before storing in any enclosure



This unit is shipped WITHOUT GASOLINE or OIL. After assembly, see operation section of this manual for proper fuel and engine oil recommendations.



The right and left side of your chippershredder is determined from behind the unit.

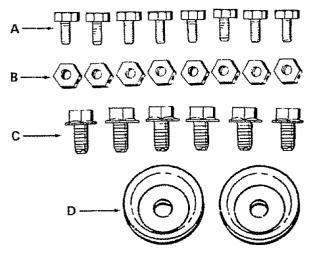
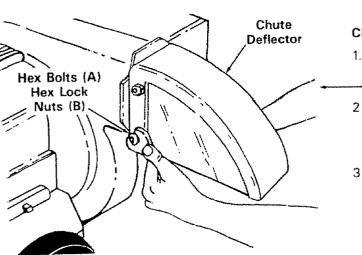


FIGURE 1.



ASSEMBLY INSTRUCTIONS

Tools Required for Assembly:

- (2) 7/16" Open End or Box Wrenches*
- (1) 1/2" Socket Wrench
- An Adjustable Wrench may be used in place of one of the wrenches.

UNPACKING

Remove the chipper-shredder and loose parts from the carton. Make certain all parts and literature have been removed before the carton is discarded.

Parts in Carton:

Chipper-Shredder Chute Deflector Hopper Upper Leaf Ramp Section Catcher Bag Hardware Pack Safety Glasses

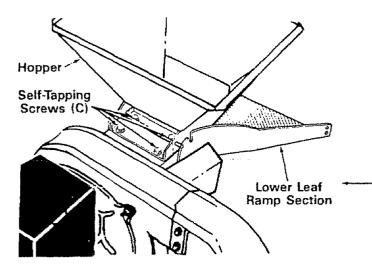
--- Contents of Hardware Pack (See Figure 1):

- A (8) Hex Bolts 1/4-20 x 1/2" Long
- B (8) Hex Lock Nuts 1/4-20 Thread
- C (6) Hex Washer Head Self-Tapping Screws 5/16-18 x 3/4" Long
- D (2) Keepers

CHUTE DEFLECTOR INSTALLATION

- Place the chute deflector in position on the discharge opening (on the left side of the chippershredder). See figure 2
- 2 Secure chute deflector to discharge opening with hex bolts (A) and hex lock nuts (B). Heads of the hex bolts are inside the discharge opening. Hex nuts go on the outside.
- 3. Tighten all four nuts and bolts securely

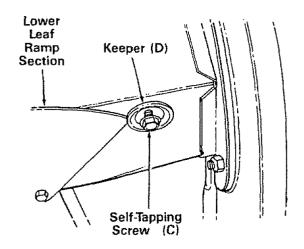
FIGURE 2



INSTALLATION OF HOPPER AND UPPER GUIIDE EXTENSION

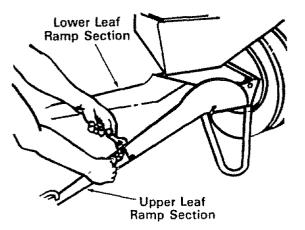
- 1. The lower leaf ramp section on the chipper-shredder is placed in an upright position for shipping purposes Lower this section.
- Place the hopper in position on the shredder.
 See figure 3. Start all four hex washer head selftapping screws (C), then tighten securely using a 1/2" socket wrench

FIGURE 3.



Assemble the keepers (D) to the sides of the unit
 with two hex washer head self-tapping screws (C), using a 1/2" socket wrench. Tighten securely

FIGURE 4.



Place upper leaf ramp section inside the lower leaf ramp section. Secure with four hex bolts (A) and hex lock nuts (B). Tighten securely. See figure 5.

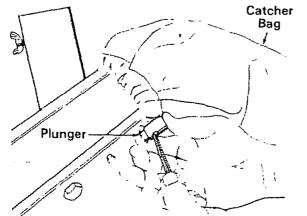


FIGURE 6.

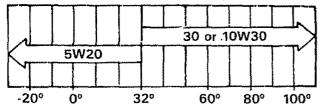
OPERATION

GAS AND OIL FILL UP



ENGINE IS SHIPPED WITHOUT OIL. FILL CRANKCASE WITH OIL BEFORE STAR-TING. BE VERY CAREFUL NOT TO ALLOW DIRT TO ENTER THE ENGINE WHEN CHECKING OR ADDING OIL OR FUEL

Recommended SAE Viscosity Grades



TEMPERATURE RANGE EXPECTED BEFORE NEXT OIL CHANGE, ALL OILS MUST A PI SERVICE CLASSIFICA-TION SD, SE OR SF.

- Fill engine with oil.
 - а Remove engine oil fill plug. See figure 7.
 - With chipper-shredder level, fill engine with oil b. to point of overflowing. Capacity is 1-1/4 pints. Tilt chipper-shredder forward on its wheels, C
 - then re-level.
 - Check oil level. Refill to point of over-flowing d if necessary. Replace oil fill plug.

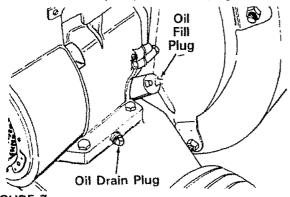


FIGURE 7.

ATTACHING THE CATCHER BAG

Your unit is equipped with a nylon bag which attaches to the discharge opening. If desired, place the end of the bag over the chute deflector. Depress plunger, pull on the drawstring, and release plunger to lock it in position. See figure 6.

2. Fill fuel tank. See figure 8. Use fresh, clean, unleaded automotive gasoline. Capacity is 3 quarts.

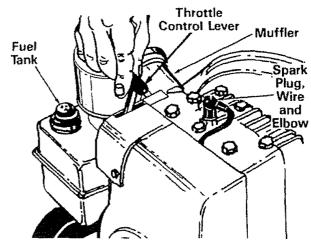


FIGURE 8.



Fill to within 1/2 inch of top of fuel tank to prevent spills and to allow for fuel expansion. If gasoline is accidently spilled, move chipper-shredder away from area of spill. Avoid creating any source of ignition until gasoline vapors have disappeared.



OR DO NOT USE GASOHOL METHANOL. These type fuels react with water content in the fuel and tend to form strong acids which can corrode metal parts and harm rubber plastics.

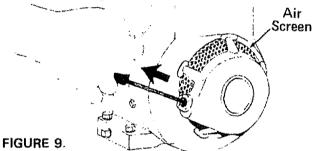
USE CLEAN OIL AND FUEL STORE IN APPROVED, CLEAN, COVERED CON-TAINERS, USE CLEAN FILL FUNNELS.

TO START ENGINE

- 1. Attach spark plug wire and boot to spark plug.
- 2. Place the throttle control lever in START position. See figure 8
- 3. Grasp starter handle (see figure 9) and pull rope out slowly until engine reaches start of compression cycle (rope will pull slightly harder at this point). Let the rope rewind slowly.

NOTE: A noise will be heard when finding the start of the compression cycle This notice is caused by the flails and fingers which are part of the shredding mechanism falling into place, and should be expected.

- Pull rope with a rapid, continuous, full arm stroke. 4 Keep a firm grip on start handle. Let rope rewind slowly. Do not let starter handle snap back against starter.
- Repeat preceding instructions 3 and 4 until engine 5. fires.
- 6. After engine starts, move throttle control lever on engine to slow position for a few minutes warm up. Then move throttle control lever to RUN position for shredding-chipping operations.



2

TO STOP ENGINE

- 1. Move throttle control lever to STOP position. See figure 8
- Disconnect spark plug wire from spark plug and ground against the engine to prevent accidental starting while equipment is unattended.

HOW TO USE YOUR CHIPPER-SHREDDER

Your shredder is designed for safe, efficient operation. KEEP HANDS AND FEET AWAY FROM ALL OPENINGS.



Wear the safety glasses provided with your unit while operating the chippershredder to prevent injury from any chips which may be ejected out of the openings. Make certain chip-it guide is closed when not in use.

Wear gloves when handling material. Feed material into the chipper-shredder at a steady rate. It is possible to feed too fast. Experiment with feeding rates to determine what rate provides the best results without stalling the engine or plugging the discharge chute.

The discharge chute will direct the shredded material into a pile, a container or the bag provided with your shredder



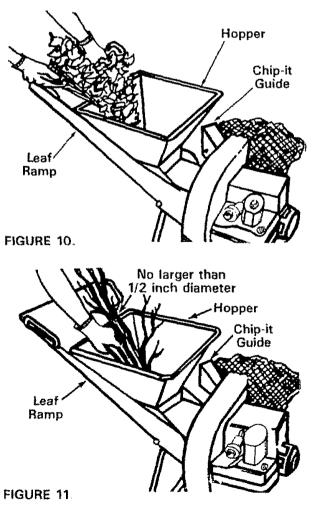
The chipper-shredder discharges material with considerable velocity Keep away from the area around the discharge chute Always stop the engine and disconnect the spark plug wire when removing or attaching the bag, when changing containers or when removing the shredded material

If if becomes necessary to push materials into the chipper-shredder, use a small diameter stick, NOT YOUR HANDS. The stick should be small enough that it will be ground up if it gets into the impeller assembly.

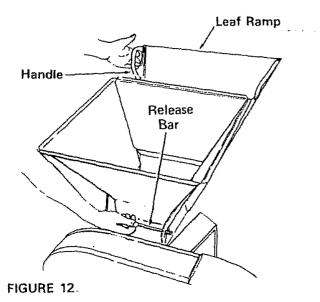


Do not deposit material larger then 1.2" diameter in the hopper or upper quide extension Any material heavier then 1/2" should be fed into the chip-it guide

Leaves and smaller branches can be fed into the hopper with the leaf ramp raised as shown in figures 10 and 11.



Lower the leaf ramp by holding the handle and pulling up on the release bar. See figure 12. Leaves and small twigs can be raked into the chipper-shredder with the leaf ramp in this position. See figure 13.



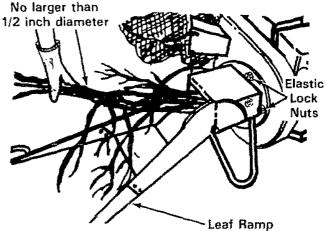


FIGURE 14.



Bulky material, such as stalks or heavy branches (anything over 1/2" diameter), should be fed into the chip-it guide. See figure 15. Do not force or jam material into the chip-it guide. Make certain leaf ramp is raised as shown in figure 15 when using the chip-it guide.

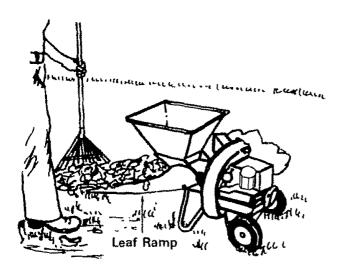
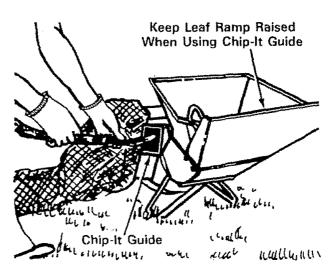


FIGURE 13.

Small branches can also be fed into the leaf ramp. See figure 14.



Make certain chip-it guide door is closed when not in use





ADJUSTMENTS

CARBURETOR ADJUSTMENT



If any adjustments are made to the engine while the engine if running (e.g. carburetor), keep clear of all moving parts. Be careful of heated surfaces and muffler.

Minor carburetor adjustment may be required to compensate for differences in fuel, temperature, altitude or load.



A DIRTY AIR CLEANER WILL CAUSE ENGINE TO RUN ROUGH. BE CERTAIN AIR CLEANER IS CLEAN AND ATTACH-ED TO THE CARBURETOR BEFORE ADJUSTING CARBURETOR. DO NOT MAKE UNNECESSARY ADJUSTMENTS FACTORY SETTINGS ARE SATISFAC-TORY FOR MOST APPLICATIONS AND CONDITIONS.

Never attempt to change maximum engine speed. It is pre-set at the factory and should be changed only by a qualified service technician who has the necessary equipment.

The carburetor may need re-adjusting if engine lacks power or does not idle properly If adjustments are needed, proceed as follows.

To Adjust Carburetor:

- Close needle valve (See figure 16) clockwise
 (
) finger tight only. Forcing may cause damage.
 Then open 1-1/2 turns counterclockwise (
).
- 2. Start engine and allow to warm for five minutes.
- 3 With throttle in RUN position, close needle valve clockwise () until engine starts to lose speed (lean mixture). Then slowly open needle valve counterclockwise () until engine JUST BEGINS to run unevenly. This mixture should be rich enough for best performance under load.
- 4. Place throttle control in IDLE position:
 - a. If engine idles, no further adjustment is necessary.
 - b. If engine idles too fast, turn idle speed adjusting screw counterclockwise (
) until slower speed is obtained
 - c. If engine dies, turn idle speed adjusting screw 1/4 turn clockwise (
) Place throttle control in FAST position and restart engine.
 - d Move throttle control to IDLE position. If engine does not idle, repeat step c

5. Test the engine by operating the chipper-shredder. If engine tends to stall or die out, it usually indicates that the mixture is slightly lean and it may be necessary to open (<>>) the needle valve slightly to provide a richer mixture This richer mixture may cause a slight unevenness in idling.

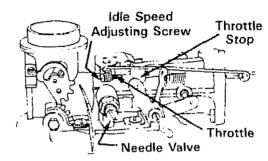


FIGURE 16.

MAINTENANCE



Disconnect spark plug wire and ground it against the engine before performing any repairs or maintenance.

ENGINE LUBRICATION

Your four cycle engine will normally consume some oil; therefore check engine oil level regularly - approximately every five hours of operation and before each usage. Stop engine and wait several minutes before checking oil level. With engine level, the oil must be even with the oil fill (refer to figure 7). Change engine oil after the first two hours of operation, and every twenty-five hours thereafter

- 1. Drain oil while engine is warm
 - a. Remove oil drain plug. Refer to figure 7.
 - b. Tip the chipper-shredder forward, and catch oil in a suitable container.
 - c. When engine is drained of all oil, replace drain plug securely.
- Refill with fresh oil. Above 32°, use oil labeled SAE 30W or 10W30 Below 32°, use oil labeled 5W20 Capacity is 1-1/4 pints. Refer to "Gas and Oil Fill-Up" on page 6
- 3. Replace oil fill plug.

AIR CLEANER

The air cleaner prevents damaging dirt, dust, etc., from entering the carburetor and being forced into the engine and is important to engine life and performance

Never run your engine without air cleaner completely assembled.

To Service Air Cleaner:

Clean and re-oil foam pre-cleaner at three month intervals or every 25 hours, whichever occurs first. See figure 17. Service more often under dusty conditions.

- 1. Remove knob and cover.
- 2. Remove foam pre-cleaner by sliding it off the paper cartridge.
 - a. Wash foam pre-cleaner in liquid detergent and water.
 - b. Wrap foam pre-cleaner in cloth and squeeze dry.
 - c. Saturate foam pre-cleaner in clean engine oil. Sqeeze to remove excess oil.
- 3. Install faom pre-cleaner over paper cartridge. Reassemble cover and screw down tight.

Replace and clean cartridge included with dual element air cleaner yearly or every 100 hours. Service more often if necessary.

Clean cartridge by tapping gently on a flat surface. If very dirty, replace cartridge or clean as follows:

- Wash in a low or non-sudsing detergent and warm water solution. CAUTION: Do not use petroleum solvents such as kerosene, to clean cartridge.
- b. Rinse thoroughly with flowing water from inside out until water is clear.
- c Allow cartridge to stand and air dry thoroughly before using. DO NOT OIL CARTRIDGE. DO NOT USE PRESSURIZED AIR TO CLEAN OR DRY CARTRIDGE
- 4. Install cartridge and pre-cleaner then the cover. Screw knob down securely.

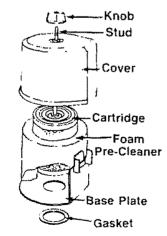


FIGURE 17.

MUFFLER

Do not operate the chipper-shredder without a muffler or tamper with the exhaust system. Damaged mufflers or spark arresters could create a fire hazard. Inspect periodically, and replace if necessary. If your engine is equipped with a spark arrester screen assembly, remove every 50 hours for cleaning and inspection. Replace if damaged.

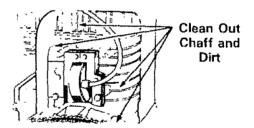
CLEAN ENGINE

Clean engine periodically. Remove dirt and debris with a cloth or brush. Cleaning with a forceful spray of water is not recommended as water could contaminate the fuel system.

Yearly or every 50 hours, whichever occurs first, remove the blower housing and clean the areas shown in figure 18 to avoid overspeeding, overheating and engine damage Clean more often if necessary.



Periodically clean muffler area to remove all grass, dirt and combustible debris.

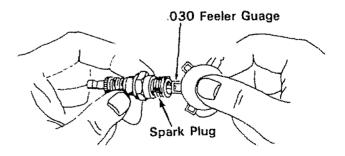




SPARK PLUG

The spark plug should be cleaned and the gap reset to 030" at least once a season or every 50 hours of operation Spark plug replacement is recommended at the start of each season. Refer to engine parts list for correct spark plug type.

NOTE: Do not blast clean spark plug Spark plug should be cleaned by scraping or wire brushing and washing with a commercial solvent.





LUBRICATION

Wheels - The wheels require no lubrication.

Flails and Fingers - If the unit is disassembled for any reason, lubricate the flails and fingers with a light oil (engine oil may be used)

CUTTING BLADE

The cutting blade may be removed for grinding or replacement as follows

- 1. Lower the upper guide extension
- 2. Block up the housing. See figure 20.
- Remove the four elastic lock nuts from the back of the housing using a 1/2" wrench. Refer to figure 14. Separate the shredder into two halves.
- 4. Remove the back-up plate. See figure 20



When reassembling, make certain the opening on the back up plate is toward the bottom of the unit. The back up plate may be reversed to provide a new cutting edge.

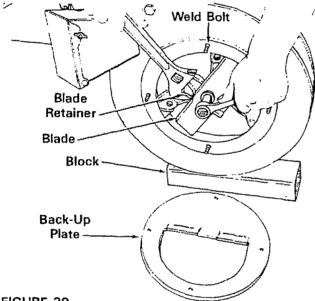


FIGURE 20.

- 5. Hold the blade retainer on the impeller assembly with an adjustable wrench to keep the blade from turning as shown in figure 20.
- Remove the blade by removing the center bolt, lock washer and flat washer.



Use caution when removing the blade to avoid contacting the weld bolts protruding from the housing.



The blade is reversible and can be assembled to the crankshaft with either side showing

When sharpening the blade, follow the original angle of grind as a guide. It is extremely important that each cutting edge receives an equal amount of grinding to prevent an unbalanced blade. An unbalanced blade will cause excessive vibration when rotating at high speeds and may cause damage to the unit.

The blade can be tested by balancing it on a round shaft screwdriver or nail. Remove metal from the heavy side until it balanced evenly. See figure 21.

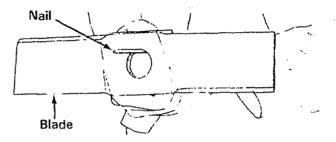


FIGURE 21

When reassembling the blade, tighten to between 375 and 450 inch pounds, or lacking torque wrench, tighten securely.

FLAILS AND FINGERS

The flails and fingers may be reversed when they become dull It is suggested that this procedure be performed by your nearest Sears Service Department

OFF-SEASON STORAGE

If the chipper-shredder is to be inoperative for a period longer than 30 days, the following precautions are recommended.

1. Working outdoors, drain all fuel from the fuel tank. Run the engine until it stops from lack of fuel



DO NOT DRAIN FUEL WHILE SMOKING, OR IF NEAR AN OPEN FIRE

- Drain all the oil from the crankcase (this should be done after the engine has been operated and is still warm) and refill crankcase with fresh oil
- 3. Protect the inside of the engine for storage as follows.

Remove spark plug, pour approximately 1/2 ounce (approximately one tablespoon) of engine oil into cylinder and crank slowly to distribute oil. Replace spark plug

4 Clean the engine and the entire chipper-shredder thoroughly.



When storing any type of power equipment in an unventilated or metal storage shed, care should be taken to rustproof the equipment. Using a light oil or silicone, coat the equipment, especially all moving parts

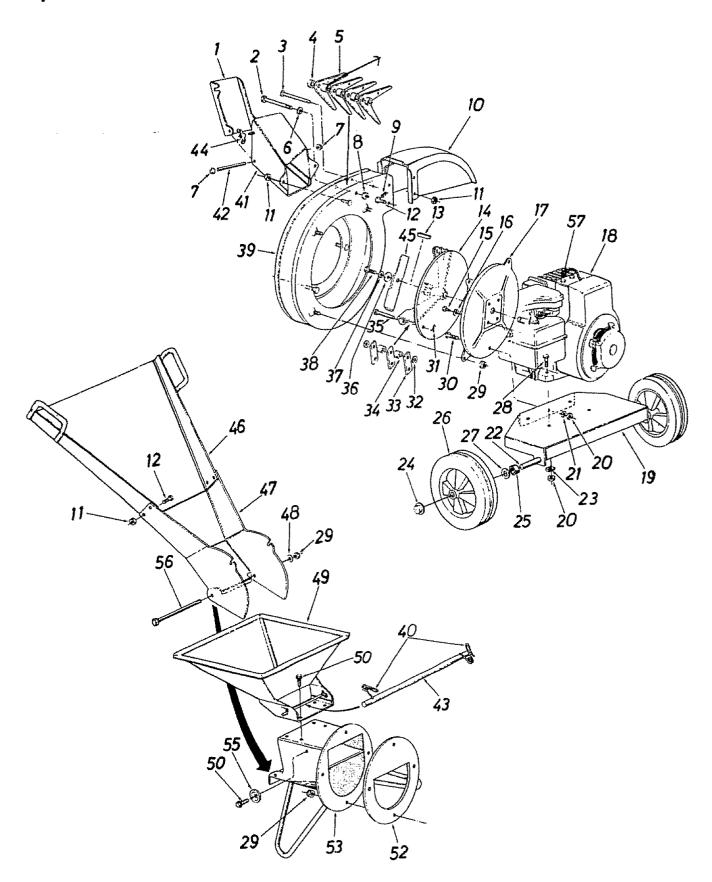
5 Store in a clean, dry area

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SERVICE RECORD FILL IN DATES AS YOU COMPLETE REGULAR SERVICE	Page No	1st 2 H.	Frequence	EVENUE	Every 25	Every 50	Non Hours			SERV	ICE E	DATES	\$	
Check Engine Oil Level	9			1										
Change Engine Oil	9	1			1									
Clean Engine	10		~											
Service Air Cleaner	10				1									
Clean Engine Cylinder Fins	10					/								,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Clean or Replace Spark Plug	10					1								

TROUBLE SHOOTING CHART

SYMPTON	POSSIBLE CAUSE(S)	SOLUTION
Engine fails to start	 Check fuel tank for gas. Spark plug lead wire disconnected Faulty spark plug 	 Fill tank if empty (p. 6). Connect lead wire (p. 6). Clean, adjust gap or replace (p. 10).
Hard starting or loss of power	 Spark plug wire loose. Dirty air cleaner. 	 Connect and tighten spark plug wire (p. 6). Clean air cleaner as described in maintenance section (p. 10).
Engine overheats	 Carburetor not adjusted properly Air flow restricted Engine oil level low 	 Adjust carburator. See adjustment section (p. 9). Remove blower housing and clean as described in the maintenance section (p. 10). Fill crankcase with the proper oil (p. 6).
Material not shredding	Blade and/or flails not sharp.	Sharpen or reverse blade and flails (p. 11)
Engine bogs down or stalls	 No fuel in fuel tank. Feeding material into the machine too quickly. 	 Fill tank if empty (p. 6). Do not force material into the opening. Feed gradually (p. 7).

NOTE: For repairs beyond the minor adjustments listed above, please contact your Sears Authorized Service Center.

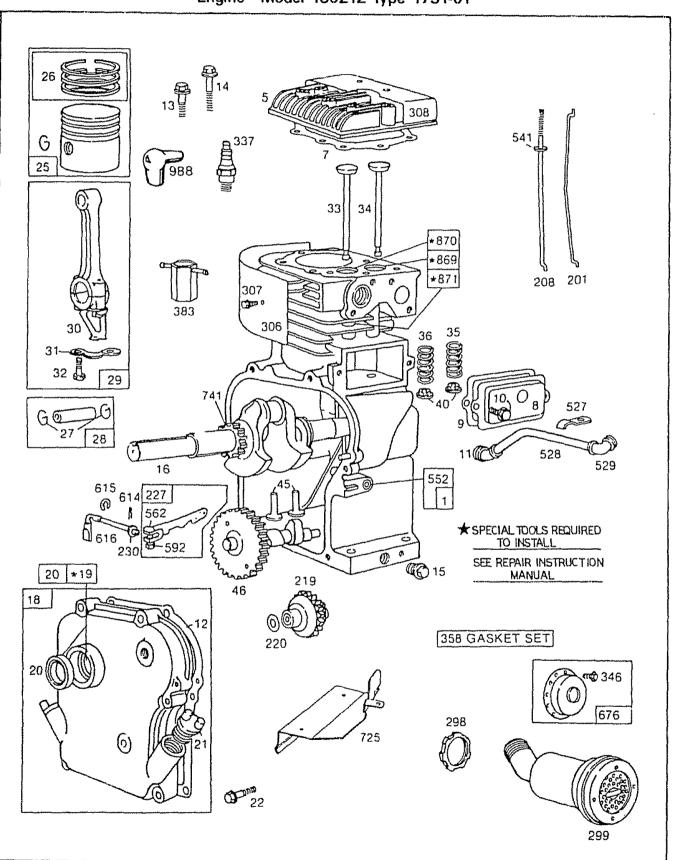


5.H.P. Chipper-Shredder-Model 247.796890

Key No.	Part No.	Description	Key No.	Part No.	Description
1	11476	Door Chip It	31	714-0144	Cotter Pin 1/8" Dia x 1.00"
2	710-0465	Hex Bolt 1/2-20 x 4 50" Lg.*			Lg.* (Special)
3	711-0580	Clevis Pin	32	736-0192	FI-Wash 531" I.D. x 937
4	711-0579	Flail Spacer 7/32" Lg			O.D. x .09
5	11455	Cutting Finger	33	11459	Flail
6	736-0921	L-Wash 1/2" I.D.*	34	711-0564	Flail Spacer 23/32" Lg
7	726-0111	Palnut 3/16" Dia	35	711-0578	Clevis Pin 50" Dia x 3.0" Lg
8	712-0922	Hex Jam Nut 1/2-20 Thd.*	36	736-0247	Fl-Wash 406" I.D. x 1.25"
9	714-0507	Cotter Pin 3/32" Dia. x 3/4"			O.D. Hdn.
		Lg.*	37	736-0217	L-Wash, 3/8" I.D. H.D.
10	16568	Chute Deflector	38	710-0151	Hex Bolt 3/8-24 x 2.0" Lg H.T.
11	712-0107	L-Nut 1/4-20 Thd	39	14575629	Flail Housing Ass'y-Comp.
12	710-0289	Hex Bolt 1/4-20 x .50" Lg.*	40	732-0546	Torsion Spring 062 Dia. x 1.06
13	714-0114	Sq. Key 1/4" x 2.00" Lg.			Lg.
14	13430	Impeller Assembly	41	11477	Chip-It Guide Ass'y
15	710-0157	Hex Bolt 5/16-24 x 3/4" Lg.*	42	11478	Hinge Pin
16	736-0119	L-Wash. 5/16" I.D.*	43	747-0531	Release Bar
17	14573	Hopper to Engine Mtg. Plate	44	712-0109	Wing Nut Elastic 1/4-20 Thd
18	5 H.P.	Engine - B & S 130212-1731-01	45	13431	Blade
19	11464	Engine Mounting Plate	46	11460629	Upper Leaf Ramp Section
20	712-0123	Hex Nut 5/16-24 Thd *	47	16524629	Lower Leaf Ramp Section
21	736-0119	L-Wash 5/16" LD.*	48	736-0264	FI-Wash. 5/16" I.D.
22	738-0521	Shaft	49	11481629	Hopper Assembly
23	736-0170	Special L-Wash. 5/16" I.D.	50	710-0601	Hex Wash. Hd. Self-Tap Scr.
24	726-0221	Push Cap			5/16-18 x .75" Lg
25	711-0494	Spacer	52	11454	Back-Up Plate
26	734-1173	Wheel Ass'y-Comp.	53	16522	Inlet Guide Assembly
27	736-0100	FL-Wash 50" LD.	55	11480	Stop Washer
28	710-0624	Hex Bolt 5/16-24 x 1 50" Lg.*	56	710-0542	Hex Bolt 5/16-18 x 8.38" Lg
29	712-0429	Elastic Lock Nut 5/16-18 Thd	57	735-0639	Spark Plug Elbow
30	710-0237	Hex Bolt 5/16-24 x 62" Lg.*		764-0199	Bag (Not Shown)
				723-0400	Safety Glasses (Not Shown)

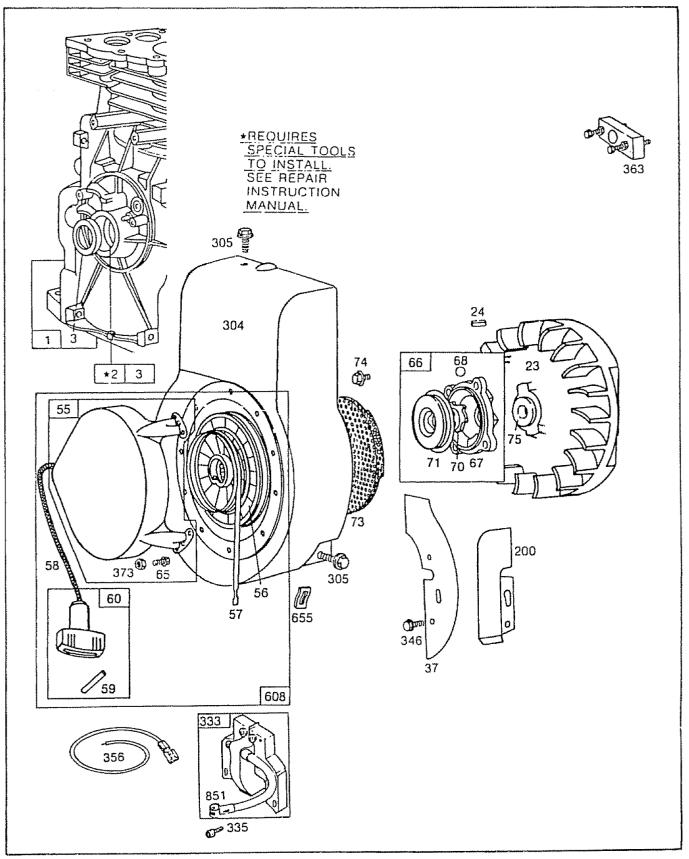
*Common Hardware - May be purchased locally.

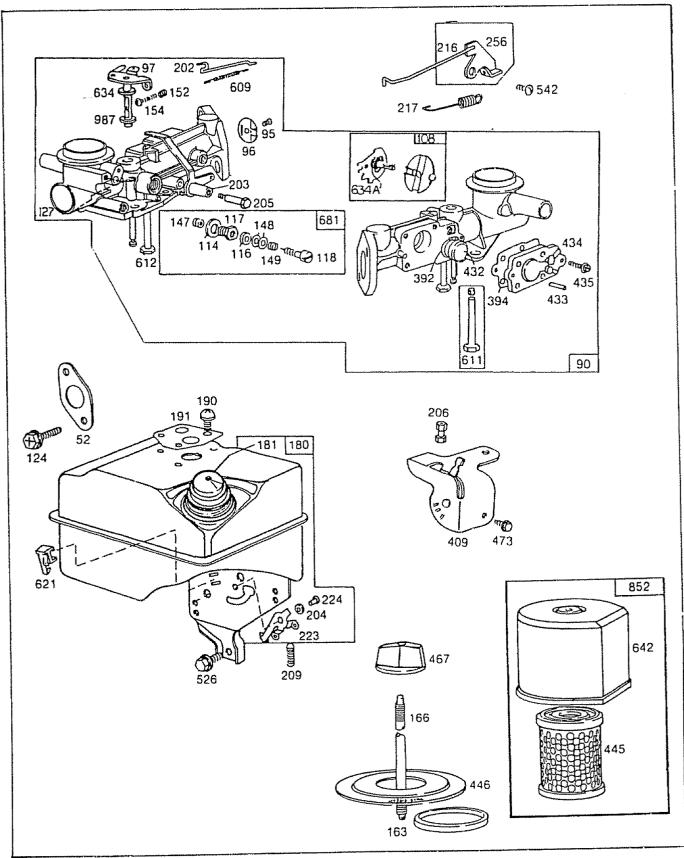
NOTE: Specifications subject to change without notice or obligation.



5 H.P. Chipper Shredder – Model 247.796890 Engine – Model 130212 Type 1731-01

5 H.P. Chipper-Shredder-Model 247.796890 Engine-Model 130212 Type 1731-01





5 H.P. Chipper-Shredder-Model 247.796890 Engine-Model 130212 Type 1731-01

5 H.P. Chipper-Shredder-Model 247.796890 Engine-Model 130212 Type 1731-01

KEY NO	PART NO	DESCRIPTION	KEY NO	PART NO	DESCRIPTION
1	395990	Cylinder Assembly	31	221876	Lock-Screw Head
2	297565	Bushing Cylinder	32	92296	Screw-Connecting Rod
1	Note:	Requires special tools for	33	211119	Valve – Exhaust
	NOICE.	installation.	34	261044	Valve – Intake
3	299819	Seal – Oil	35	260552	Spring – Intake Valve
5	211542	Head – Cylinder	36	26478	Spring – Exhaust Valve
7	*270383	Gasket-Cylinder Head	37	222443	Guard – Flywheel
8	294178	Breather-Valve Chamber	40	93312	Retainer-Valve Spring
9	*27549	Gasket-Valve Cover	45	260642	Tappet-Valve
10	93394	Screw-Breather Mtg. Sem	46	212733	Gear-Cam
11	66578	Grommet – Breather Tube	52	*27355	Gasket-Carburetor Mounting (2)
12	*270080	Gasket-Crankcase - 015 thick	55	299431	Housing-Rewind Starter
12	270000	(Standard)	56	295871	Pulley-Rewind Starter
	•270125	Gasket-Crankcase- 005" thick	50	2000/1	(Includes 63" long rope)
	•270125	Gasket-Crankcase- 009" thick	57	294303	Spring – Rewind Starter
13	93368	Screw-Cylinder Head	58	66884	Rope—Rewind Starter— 63" long
13	33300	(2-3/32'` long)	59	230228	Pin-Starter Grip
14	93369	Screw-Cylinder Head	60	393152	Grip – Starter Rope
14	33303	(2-15/32" long)	65	93105	Screw-Standard Steel Housing
15	91249	12-15/32 1019/ Plug Pipe, 1/4" Std	05	33105	Mtg. Sem
15	91249		66	399671	Clutch Assy-Rewind Starter
		Square Head To Replace Crankshaft Gear Pin,	67	394897	Housing – Starter Clutch
			68	63770	Ball—Clutch
10	000000	Order Part No. 230978	70	298436	Ratchet – Rewind Starter
16	398098	Crankshaft	71	394506	Washer-Clutch Retainer
18	298517	Cover AssyCrankcase	73	221923	Screen – Starter Pulley
19	297603	Bushing-Crankcase Cover	74	93490	Screw-Sem
		Note:Requires special tools for	74	220865	Washer-Spring
00	000504	installation.	90	397940	Carb. Assy
20	298504	Oil Seal and Spacer	95	93499	Screw-Throttle Valve to Shaft
21	66768	Plug-Oil Filler	30	93499	Sem
22	93032	Screw-Crankcase Cover	96	211203	Throttle – Carburetor
		Mounting Sem	97	299212	Shaft and Lever – Throttle
23	297229	Flywheel-Magneto		397134	Valve Group-Choke
24	222698	Key-Flywheel	108		Gasket-Needle Valve Nut
25	298904	Piston Assy – Standard	114	66594	Packing-Needle Valve
1	298905	Piston Assy – 010" O.S.	116	65978	Nut-Needle Valve
	298906	Piston Assy – 020" O.S.	117	230590	Valve – Needle
		Piston Assy – 030" O D	118	23433 93357	Screw-Hex Head
PISTO	N RING SET		124	t " ' '	Plug-Welch
		Note:For Chrome Piston	127	22831	Seat-Needle Valve
		Ring Set - Standard Size -	147	230591	Washer-Needle Valve (2)
		Order Part No. 299742.	148	22235	Spring-Needle Valve
26	298982	Ring Set-Standard Piston	149	26336	Spring-Throttle Adjustment
	298983	Ring Set-010" O.S. Piston	152	260575	Screw-Machine, Rd. Hd
	298984	Ring Set-020" O.S. Piston	154	93527	5-40 x 5/8"
	298985	Ring Set- 030" O.S. Piston	100	371120	Gasket-Air Cleaner Mounting
27	26026	Lock-Piston Pin	163	271139	Stud-Air Cleaner
28	298909	Pin Assy-Piston-Standard	166	231332	Tank Assembly-Fuel
	298908	Pin Assy-Piston-005" O.S.	180	397137	Cap-Fuel Tank
29	299430	Rod Assy-Connecting	181	394818	Screw-Fuel Tank Mounting
1	1	Note: For Connecting Rod with	190	93440	1
		.020" undersize Crankpin Bore-			Sem (2) Note: 94094 Screw-Fuel Tank
		Order No. 390459			
30	221980	Dipper-Connecting Rod			Mounting (1)
	<u> </u>		<u> </u>	1	

5 H.P.	Chipper-Shre	dder – M	odel	247.796890
En	igine – Model	130212	Туре	1731-01

KEY	PART	aanaanaanaanaanaanaanaa,	KEY	PART	
NO.	NO.	DESCRIPTION	NO.	NO	DESCRIPTION
				00144	
191	•271592	Gasket-Fuel Tank Mounting	435	93141	Screw – Diaphragm Cover
200	221480	Guide – Air	445	396424	Cartridge-Air Cleaner
201	261558	Link-Governor		271466	Foam Pre-Cleaner Element
202	260678	Link-Throttle			(not shown)
203	393919	Crank – Bell	446	222844	base -Air Cleaner
204	222962	Bushing-Governor Lever (Flat)	467	212706	Knob Air Cleaner
205	93838	Screw-Shoulder	473	93612	Surew Sem
206	280012	Nut-Control Rod	526	9334.3	Screw Tank Bracket Mounting
208	230946	Rod-Control			Sem
209	260695	Spring-Governor	527	221514	Clamp Breather Tube
216	397709	Link-Choke (Includes Bell Crank)	528	231386	Tube Breather
217	261951	Spring – Choke	529	67838	Grommet Breather Tube
219	391737	Gear – Governor	541	22398	Washer
220	221551	Washer-Thrust	542	94025	Screw
223	221517	Lever-Governor Control	552	231079	Bushing Governor Crank
224	93491	Rivet-Governor Control Lever			(1/4"TD)
		Mounting	562	92613	Bolt Governor Lever
227	393920	Lever Assy – Governor	592	231082	Nut Hex 10 24
230	222450	Washer-Governor Lever	608	390463	Starter Assy. Rewind
256	397709	Crank-Bell (Includes Choke Link)	609	260294	Spring - Throttle Link
298	261409	Locknut-Muffler	611	391813	Fuel Pipe and Clip Assembly
299	393368	Muffler – Exhaust	612	296811	Pipe - Fuel
304	299410	Housing – Blower	614	93306	Cotter - Hair Pin
305	93158	Screw-Blower Housing Mounting	615	93307	Retainer E-Ring
306	221511	Shield – Cylinder	616	231077	Crank Governor (1/4" Dia.)
307	93042	Screw-Cylinder Shield Mounting	621	297472	Switch - Stop
		Sem	634		Washer - Throttle Shaft (Foam)
308	221512	Cover-Cylinder Head	634/		Washer Choke Shaft
333	397358	Armature Assembly	642		Cover Air Cleaner
335	93414	Screw-Armature Mtg. Sem	655	222598	Anchor Spring
337	298809	Plug-Spark 1-1/2" High-	676	395700	Deflector Exhaust (Direct
		37-42 M.M.			Outlet)
346	93705	Screw-Sem	681	299060	Needle Valve Kit
356	398808	Wire – Ground	725	223334	Shield - Heat
358	397145	Gasket Set	741	261696	Gear Timing
363	19069	Flywheel Puller (Optional	851	221798	Cable Terminal Ignition
		Accessory	852	396397	Cleaner Group - Air
373	93987	Nut-Hex	869	211787	Seat - Intake Valve (Standard)
383	89838	Wrench-Spark Plug	870	211172	Seat - Exhaust Valve (Standard)
392	260455	Spring-Fuel Pump Diaphragm	ł		Note: For Options see Repair
394	270026	Diaphragm			Manual
409	299837	Lever-Trol - Speed Control	871	231348	Guide Exhaust Valve
432	221377	Cap - Spring			Note: 63709 Guide - Intake Valve
433	93265	Pin-Diaphragm Cover			See Repair Instruction Manual
434	210959	Cover- Diaphragm	987		Seal Throttle Shaft
			988	735-0639	Spark Plug Elbow

* Included in Gasket Set Part No. 397145.

SPARK ARRESTING MUFFLER ASSEMBLY 392390 (Optional Equipment)

Consists of the following: 392154 Screen (1 required) 223372 Deflector (1 required) 93705 Screw (4 required)

SEARS	SEARS / CRAFTSMAN®
OWNERS	5 H.P.
MANUAL	CHIPPER-SHREDDER
MODEL NO. 247.796890	The model number will be found on the model plate, attached to the frame. Always mention the model number when requesting service or repair parts for your chipper-shredder All parts listed herein may be ordered from any Sears Service Center and most Sears stores. WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE FOLLOW- ING INFORMATION: • THE PART NUMBER • THE PART DESCRIPTION • THE MODEL NUMBER 247 796890 • THE NAME OF MERCHANDISE—CHIPPER-SHREDDER
HOW TO ORDER	If the parts you need are not stocked locally, your order will be elec-
REPAIR PARTS	tronically transmitted to a Sears Repair Parts Distribution Center for handling.

Sears, Roebuck and Co , Chicago, III 60684 U S.A